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The Master Question Book and Home Study Outlines

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PREFACE

Time was when practically everybody thought getting through school or college meant the end of study. The idea that it was possible to master subjects outside of school was rejected as absurd.

All that is changed. The new times demand new knowledge. Every person now needs to know about things not learned in school,—about things that were not then and are not now found in textbooks. As a natural result, practically everybody during these eventful days is studying,—high school, college, and university graduates not excepted.

Further, people are beginning to realize that the present aim of all schooling is to teach where to look for and how to acquire information,—how to secure facts not found in the textbooks and to study biographies not given in the histories. Consequently, students everywhere, including pupils in the high schools and in the grades, need to broaden the work they are doing in school.

The Master Question Book is designed to give effective aid to all who desire to improve through self-instruction. Founded on the study of the greatest masters of all time, history is made real in the lives of those who built and overthrew nations; the advance of science is revealed in the lives of those who created the world's knowledge; the development of literature is made clear in the achievements of the world's greatest writers. Likewise, the world's progress in art, music, invention, and discovery is brought impressively to view in the struggles and triumphs of its leaders.

In brief, the inspiration of the greatest personalities has been combined with the fascination of the greatest facts in each field of knowledge. Personality is now recognized as the most important element in all instruction. Helmholtz, a world leader in science, declared: "When one comes in contact with a man of the first rank, his spiritual scale is changed for life. Such a contact is the most interesting event that life can offer."

The Master Question Book affords the means of coming into inspiring contact with a hundred men of preeminent rank, as well as with more than four thousand other leaders of the world's thought and action. This gives it a unique teaching value, unapproached in range and effectiveness by any other manual of self-instruction.

While the preparation of this question book is a task of no small magnitude, the publishers are confident that it will serve the purposes outlined in the section "How to Use." It attempts no impossible service and it makes no claim to completeness. However, it *does* seek to point the way to more effective knowledge at a time when millions in our land regard it a personal as well as a patriotic duty to acquire it.

HOW TO USE

Explanatory. The Master Question Book is based on the large illustrated volume entitled MASTERS OF ACHIEVEMENT. Throughout all sections this question book has been specially prepared for study, reading, and reference *in connection with* the larger work, of which it may be regarded as an extension or a continuation. This question book is, in reality, a *part* of MASTERS OF ACHIEVEMENT, supplementing its usefulness and increasing its educational value.

Important Features. The user should appreciate first of all that this question book contains two valuable features, each of great helpfulness when rightly used.

First, the Question Groups based on the lives and work of 4300 world leaders as described and illustrated in MASTERS OF ACHIEVEMENT.

Second, the Reference Lists, or bibliographies, consisting of classified lists of books. These lists include over a thousand of the world's best and most valuable works in which the subjects of study herein treated may be further pursued.

Question Groups. These comprise some nine thousand questions arranged in over a hundred carefully classified divisions. Instructive answers to these questions may readily be found by means of the page references to the proper text in MASTERS OF ACHIEVEMENT. Many of these question groups furnish the essentials of a modern course of study in the subject treated. When supplemented by the reading and study indicated in the accompanying Reference Lists, the user is enabled to follow each subject to any desired degree of detail.

Reference Lists. While the text of MASTERS OF ACHIEVEMENT contains the titles of over ten thousand of the world's most noted books, these are necessarily given under the biographies of their authors. By means of the Reference Lists, however, the most useful and valuable of these, together with other desirable books for study, reading, or reference, are placed with the questions under their respective groups. The user is thereby enabled to study each important subject through the record of the greatest men connected with it, and, at the same time, is referred to the most helpful books for obtaining further knowledge. These reference lists, of course, do not contain *all* the good books that have been written or are now available concerning any subject, but they are *representative* of the best and indicate where the learner may profitably continue further study.

How to Obtain Books. While lack of space prevents including the names and addresses of the various publishers, most of the books named in the Reference Lists may be readily obtained through local bookstores or news dealers. Many valuable books mentioned are available in standard but inexpensive editions, such as Everyman's Library, the Home University Library, and similar series. Those who have access to a public library will find the

classified Reference Lists in this question book an invaluable guide.

How to Study. The first step in preparing for home study by means of this question book is to get a clear idea of what MASTERS OF ACHIEVEMENT really is and what it contains. This is best done by reading the Preface, the instructive section How to Use, pages 7 to 11 inclusive, and the explanatory matter concerning the Suggestive Groups for Study and Reference, pages 937 and 938.

Suppose one wishes to study early American history. Turning to the Index, page 248, and locating the general group, "American History," page 228, one finds that this subject quite naturally begins with the period of "Discovery and Exploration." The first question reads:

"What year shows the first trace of the great design of COLUMBUS?"

This is followed by two equally searching questions at the right of which one finds the figure 280. This refers to the page in MASTERS OF ACHIEVEMENT where the answers may be found. By means of similar questions and page references one may learn the essential points concerning the early period of American history. At the *end* of the question group is a list of the best books for the further study of this *particular* period. At the *beginning* of the section of American history there is a list of valuable works covering the *whole* subject. In a similar manner one may study any one of more than a hundred subjects of interest, each of which may be quickly located by using the cross reference index, pages 248 to 250.

Some ten groups of questions from the beginning of American history, page 228, one finds: "Whose discoveries led to the French possession of Canada?" followed by the page reference, 534-D. In all cases where a capital letter follows a page reference proceed as follows:

Turn first to the page indicated; then, beginning with the left hand column, call the first titled sketch of biography A (in this case Carter, J. C.), the second titled sketch B, the third C, and so on. By calling the fourth sketch D, one arrives at the biography of Jacques Cartier, which furnishes the answer.

Note carefully, however, that mere cross-reference lines in the text are not counted as sketches or biographies, as, for example, page 594, "Dooley, Mr.," "Dora d'Istria," would not be counted in locating a sketch on this page.

When two page numbers joined by a hyphen follow a question, it indicates that the answer will be found between the pages so numbered, inclusive. For example, the numbers 413-415 mean that pages 413, 414, and 415 should be consulted.

Throughout the question groups the names of the hundred greatest masters are always printed in capital letters. For example, in the first question on American history mentioned above the name COLUMBUS is in capitals, indicating his rank among the world's greatest masters.

In pursuing any subject of study in this question book, bear

in mind that the names of all characters studied are arranged in chronological order in the groups for study and reference, MASTERS OF ACHIEVEMENT, pages 937-955. Any desired group may be located by referring to the topical index, page 956.

Guide to Home Study. There is practically no limit to what one may master by self-instruction, provided one really *desires* to learn and knows *where* to look. No matter how long one attends school or college, or even if one never attends, the greatest teacher, after all, is the teacher within. The Master Question Book presents stimulating and suggestive groups of questions for self-examination, self-instruction, and self-improvement, throughout a range of subjects embracing every important field in history, science, art, literature, invention, and discovery.

Tells Where to Look. In discussing the remarkable efficiency of great leaders, such as Wilson or Roosevelt, for example, observant persons have emphasized that, in addition to being marvelously well informed, those men seem to know just where to go for needed knowledge. The reference lists or bibliographies accompanying the question groups show just where to find further authoritative information.

Review Work. For the teacher who wishes to review subjects not taught for some time, the Question Groups covering the whole field of history, literature, art, and science will prove exceedingly helpful.

For the high school or grade pupil needing to review for an examination or in preparation for advanced work, the Question Groups will be found of great service.

For the club woman who wishes to work up on special subjects in art, literature, history, or social science, the classified Question Groups together with the Reference Lists will furnish a vast range of pertinent information.

For any person desiring to improve his knowledge in a general way, or to "brush up" on a special subject, the Question Groups and reference material will prove invaluable.

Entertainment. An exhaustless store of suggestive material is provided for interesting games, such as guessing authors, naming discoverers, history contests, literary competitions, information tests, and similar forms of entertainment now so pleasing a feature not only of study clubs but of social gatherings as well. An alert hostess can continually secure new and diverting means of pleasing her guests.

Four Notable Groups. The hundred great masters specially treated in the main volume (see pages 12 and 438), together with the roster of the American Hall of Fame, the members of the American Academy of Arts and Letters, and the winners of the Nobel prize awards, constitute a world's honor roll of achievement. Materials for profitable study are found in the instructive biographical sketches, 332 in number, important portions of which have been made a part of the Question Groups. Explanatory matter with reference to the hundred great masters is found on pages 6 to 10, inclusive, and on pages 937 and 938 of the large work. Helpful information concerning the other three groups will be found on the ensuing pages, 7, 8, and 9, of this book.

AMERICAN HALL OF FAME

Crowning University Heights in upper New York city, and overlooking the valleys of the Harlem and the Hudson, there is a notable memorial structure known as the Hall of Fame. Within an imposing semicircular colonnade, 500 feet in length, space is provided for bronze tablets, busts, and statues. Beneath the colonnade is a museum for the permanent exhibition of portraits and other memorials.

Of far greater significance, however, than the impressive dignity of its architecture or the surpassing beauty of its scenic setting, is the roll of noble names inscribed within this American Pantheon.

According to the constitution of the Hall of Fame, a gift of one-quarter of a million dollars was accepted by New York University for the erection of a colonnade and its substructure, to be used perpetually as "The Hall of Fame for Great Americans." One hundred fifty panels will be provided for memorial bronze tablets. Fifty of these were to be inscribed in 1900 in case fifty names should then be approved by the judges designated. At the close of every five years thereafter, five additional panels will be inscribed, so that the entire number shall be completed by A.D. 2000.

By the rules for election, the university first invites nominations from the public. No name, however, can be inscribed except of a person who has been deceased at least ten years. These nominations are next passed upon by the university senate. Every name that is seconded by any member of the senate is then submitted to a board of one hundred or more electors, composed of distinguished men representative of the best scholarship and achievement of the nation. The members of this jury then cast their votes for such candidates as they judge most famous. No name may be inscribed unless it receives at least a majority of the electors voting upon it.

The board of electors is selected from four groups of citizens: (1) University or college presidents; (2) professors of history, scientists; (3) editors, authors, men of affairs; (4) high public officials, justices of the highest courts. Every state or group of states having approximately a million inhabitants is given one elector. In consequence the board of electors is truly national and eminently fitted to make an authoritative choice.

At the first election in 1900, only 29 out of 252 candidates nominated were elected. At the elections of 1905, 1910, and 1915, a total of 27 names was added. Of the 56 names comprising this great honor roll, 14 are authors, 11 statesmen, 4 soldiers and sailors, 4 preachers, 4 teachers, 5 scientists, 4 inventors, 4 jurists, 2 philanthropists, 1 actress, 1 artist, 1 pioneer, and 1 reformer. Among these are the names of 6 distinguished women.

In MASTERS OF ACHIEVEMENT page 955, under special group (98), a complete list of these great Americans will be found, and a sketch of each occurs in its proper place in the text.

AMERICAN ACADEMY OF ARTS AND LETTERS

This distinguished body may be said to comprise a Hall of Fame for living Americans of eminence in the realm of art and literature.

The academy owes its foundation to the action of the American Social Science Association which, at its annual meeting of 1898, nominated a small group of noted authors and artists to constitute the National Institute of Arts and Letters. Membership in this body was at first restricted to one hundred fifty, but later was increased to two hundred fifty. Eligibility for membership was conditioned on distinguished attainment in literature or in the fine arts. In the course of six years the membership of the institute had grown to embrace a large proportion of the most eminent writers and artists in the United States.

In 1904 the institute proceeded to organize the American Academy of Arts and Letters. By vote seven members of the institute were elected founding members of the academy and these were authorized to choose from the membership of the institute eight additional members of the academy. The fifteen members then proceeded to choose five more, and the twenty in turn selected an additional five. This method of selecting members of the academy from the larger membership of the institute was continued until the entire membership of the academy, limited by its constitution to fifty, had been chosen.

The original seven members of the academy were William Dean Howells, the novelist, Edmund Clarence Stedman, the poet, Samuel Langhorne Clemens, the humorist, John Hay, the author and statesman, Augustus Saint-Gaudens, the sculptor, John LaFarge, the painter, and Edward Alexander MacDowell, the composer.

In 1909 the first public meeting was held, and in 1916 the organization received a national charter from congress.

Broadly speaking, this American body, in spirit and in purpose, corresponds to the "immortal forty" of the French Academy which for generations has embraced the literary peers of France. The American body is doubtless more truly representative and more widely influential than was the now famous French Academy at the same stage of development.

At the beginning of 1918 the complete register of living and deceased members included ninety noted Americans. Of these thirty-one had been chosen from the field of fine arts and fifty-nine from the domain of literature. A list of the eighty-seven members elected previous to the publication of MASTERS OF ACHIEVEMENT is given in group (99) on page 955. During the intervening months Elihu Root, Brand Whitlock, and Hamlin Garland have been elected to membership. Biographical sketches of the entire ninety will be found in alphabetical order in the section "Masters Throughout the World."

NOBEL PRIZE WINNERS

In compliance with the terms of a bequest by Alfred Bernhard Nobel, noted Swedish inventor and manufacturer, who died in 1896, there was provided a fund of $9,200,000 for the establishment of prizes to be awarded to persons throughout the world making the most valuable contributions to science, idealistic literature, and the promotion of peace.

Five prizes, amounting to about $40,000 each, were designated to be awarded annually in recognition of distinguished work in (1) chemistry, (2) physics, (3) physiology or medicine, (4) literature, and in (5) the cause of international peace.

In chemistry and physics the awards are made by the Swedish royal academy of sciences; in medicine by the Caroline institute of Stockholm; in literature by the Swedish Academy; for peace by a committee appointed by the Norwegian Storthing.

Awards were first made in 1901 and were continued without interruption until the close of 1913. During this period 77 persons in 16 different countries were made recipients of Nobel prizes.

Following the outbreak of the world war the peace prize was withheld, and the distribution of other prizes was irregular, so that for the years 1914, 1915, 1916, and 1917 only 10 awards were announced.

In some instances, when it appeared impossible to decide upon relative merit, the prize has been divided between two or three noted masters of achievement, with equal honor for all. On two occasions the peace prize has been awarded to an institution.

Of the 87 personal and 2 institutional awards, 16 were for notable work in chemistry, 20 for work in physics, 16 in medicine, 18 in literature, and 19 for efforts in behalf of peace.

Classified by country of residence, the prize winners were distributed as follows: Germany 20; France 17; England 9; Sweden 6; United States, Holland, and Switzerland 5 each; Italy and Denmark 4 each; Austria and Belgium 3 each; Spain 2; Russia, Poland, Norway, and Bengal 1 each.

Three women have won Nobel prizes. One of these, Madame Curie, is the only person who has been distinguished by more than one Nobel award. In 1903 she shared in the prize for physics and in 1911 she was awarded the full prize in chemistry. Thus the highest honors of twentieth-century science have been bestowed upon a woman.

The list of recipients of Nobel prizes may be said to constitute the world's honor roll of recent achievement. This impressive list, arranged in divisions corresponding to the five fields of effort, is found complete to year of publication in MASTERS OF ACHIEVEMENT, page 955, group (100). Biographical sketches of all the Nobel prize recipients, with a portrait group of American winners, are given in the text of the volume.

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TEXTBOOKS: S. Newcomb, *Popular Astronomy;* C. A. Young, *General Astronomy;* F. R. Moulton, *Descriptive Astronomy;* H. Jacoby, *Astronomy: A Popular Handbook;* R. Ball, *Popular Guide to the Heavens.*

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READING AND REFERENCE: Sachs, *History of Botany;* Kerner and Oliver, *Natural History of Plants;* Schimper, *Plant Geography;* Pfeffer, *Physiology of Plants;* Darwin, *Origin of Species;* De Candolle, *Origin of Cultivated Plants;* Scott, *Evolution of Plants;* Farmer, *Plant Life.*

TEXTBOOKS: Bergen, *Foundations of Botany;* Coulter, *Elementary Studies in Botany;* Bessey, *Botany for High Schools and Colleges;* Coulter, Barnes, and Cowles, *Text-Book of Botany;* Ganong, *The Living Plant;* Sargent, *Plants and Their Uses.*

NATURE STUDY: Comstock, *Handbook of Nature Study;* Bailey, *The Nature Study Idea;* Standish, *Country Life and Agricultural Education;* Hall, *The Open Book of Nature;* Coulter, *Practical Nature Study.*

POPULAR HANDBOOKS: Reed, *Flower Guide;* Mathews, *Familiar Flowers of Field and Garden;* Lounsberry, *Guide to the Wild Flowers;* Keeler, *Our Early Wild Flowers;* Mathews, *Field Book of American Wild Flowers;* Rogers, *Tree Guide;* Mathews, *Field Book of American Trees and Shrubs;* Keeler, *Our Native Trees;* Rogers, *Tree Book;* Parsons, *How to Know the Ferns;* Huntington, *Study of Trees in Winter;* Mathews, *Familiar Trees and Their Leaves;* Lounsberry, *Guide to Trees;* Weed, *Wild Flower Families;* Doubleday, *Nature's Garden;* Rogers, *Trees That Every Child Should Know.*

FLORAS: Gray's *New Manual of Botany,* 7th edition; Britton and Brown, *Illustrated Flora of the Northern States and Canada;* Chapman, *Flora of the Southern United States;* Small, *Flora of the Southeastern United States;* Coulter and Nelson, *New Manual of Rocky Mountain Botany;* Coulter, *Manual of Texan Botany;* Jepson, *Flora of Middle Western California;* Sargent, *Trees of North America;* Sudworth, *Forest Trees of the Pacific Slope.*

CHEMISTRY

Name the four material elements recognized by Empedocles. Are any of these elements in the modern chemical sense? To what primal causes did Empedocles ascribe all material change? 610

What did Democritus assume to be the original characteristics of matter? By what name was his system of philosophy known? 586

Previous to Paracelsus and Van Helmont, with what pseudo-science had chemistry been long identified? Following its separation from alchemy, with what was chemistry for a time chiefly connected? (Under Lavoisier)..... 324

State how Paracelsus contributed to the advance of chemistry 828

To the study of what substances did the physician Van Helmont devote his attention? State the results of his investigations 701

State the nature of Boyle's *Sceptical Chemist* and the effect of this work upon chemical science. Who formulated the phlogiston theory? State its essential points.....325, 506

What noted theory was advanced by Joseph Black? To what valuable invention did it lead? What did Black prove concerning the composition of air?..... 493

What did Cavendish discover concerning the composition of water? Discuss his experiments on the composition of air. 538

What notable discovery was made by Priestley, and at what date? 844

Mention important chemical discoveries made by Scheele.... 867

Describe how LAVOISIER began his scientific career. State how he overthrew the phlogiston theory. What did LAVOISIER prove concerning the nature of combustion? State the importance of his researches in this field...324-325

What was LAVOISIER'S theory on the composition of acids? In what important exception did Sir Humphry Davy later prove LAVOISIER'S acid theory wrong? With this exception noted, what was the importance of the theory? 326, 582

What notable contribution did LAVOISIER make to chemical science in 1787? How did LAVOISIER test most of his discoveries before publishing them? In what noted work was his system of chemistry published?..... 327

Mention three other noted scientists who, with LAVOISIER, are regarded as the founders of chemistry..... 327

With what eminent chemist was Berthollet associated? What important idea did he introduce into chemical theory?.. 489

For what notable theory is Dalton famous? State when published and its ultimate effects upon physical science.... 576

State the celebrated law first formulated by Avogadro in 1811. Discuss briefly its value and use..... 464

What great contribution to chemistry was made by Humphry Davy in 1806? What new metals did he obtain by electrolysis? What valuable practical invention was made by Davy? 582

State the important law concerning the combination of gases discovered by Gay-Lussac, also its value in chemistry. Mention other notable discoveries..... 654

What eminent chemist devised the system of symbols now in use? 489-H

Name the chemical elements discovered or first isolated by Berzelius. How did he establish Dalton's atomic theory? Of what valuable theory was Berzelius the author? State his influence on chemical science..... 489

By whom was chloroform discovered? Mention other discoveries by this early American chemist.....682-E

Mention important discoveries by Chevreul. To what did his researches on saponification lead? What notable honor was awarded him on his hundredth birthday?... 545

What researches led to the discovery of paraffin and creosote?.850-J

What distinguished scientist discovered benzol, the basis of anilin dyes? 619-A

What eminent German chemist is considered the founder of organic chemistry? What organic compound was first produced artificially? Name an important industry which resulted from his inventions. When did he first produce calcium carbide?.....926-C

By whom and how was bromine discovered? Mention its uses..468-G

What noted French chemist specialized in agricultural chemistry? Name his most valuable publication.....505-G

What eminent German chemist specialized in the chemistry of food? Name other fields in which he became distinguished 775-F

Who formulated the law of the molecular diffusion of gases? State the law.....672-B

Name Bunsen's greatest discovery. To what valuable practical use has the principle of the Bunsen gas-burner been applied? 520

What early American chemist became a noted investigator in spectrum analysis and photography?.....596-G

What Scotch chemist made notable investigations on petroleum? State the importance of his discoveries.....932-B

Of what noted chemist was Gerhardt a pupil? With what chemist was he later associated? Name two of their most valuable contributions to chemistry..... 657

What valuable contribution to chemical science was made by Wurtz? 929

In what department of chemistry did Fresenius become celebrated? 642

What German chemist first obtained anilin? What art did his discoveries revolutionize?.....715-A

When and from what did Kolbe artificially produce salicylic acid? Of what importance was this discovery?..... 762

In what university was Oliver Wolcott Gibbs professor of chemistry? What noted laboratory is named in his honor? 660

In what noted university was Pasteur professor of chemistry? What important researches did he make during 1854-57? 830

How did Cannizzaro contribute to the establishment of Avogadro's law? Name two of his discoveries..... 529

State the influence of Josiah Parsons Cooke as a teacher of chemistry. Name one of his distinguished pupils..... 560

What French chemist first liquefied oxygen and nitrogen? What did Pictet do almost simultaneously by another method? 526-A, 838

Name valuable discoveries and inventions by Crookes. Which of his inventions is used in producing the Röntgen or X-rays? State its connection with commercial electric lighting..... 570

What noted Russian chemist formulated the periodic law? What did it enable him to foretell?.....803-C

What eminent chemist was Liebig's successor at Munich? Mention some of his valuable discoveries and contributions. What noted prize was awarded him?.....466-G

What kind of dye is Perkin's purple? Of what industry did its discoverer thereby become the founder?..... 834

What was remarkable about the discovery of germanium by Winkler? 924

By what work did Pfeffer, the botanist, lay the foundation of modern physical chemistry?..... 836

What important substance was discovered by Remsen? What valuable journal did he found?..... 851

What researches by Wallach gave rise to the industry of producing artificial gums, perfumes, and essential oils? For what was Wallach awarded a Nobel prize?..... 910

To what department of chemistry were Fischer's researches devoted? What is regarded as his most eminent achievement? What honor was bestowed upon him in 1902?... 625

How did Moissan obtain fluorin in the free state? What did he accomplish with the electric furnace? State the results of his attempt to produce diamonds. When was he awarded the Nobel prize for chemistry?..... 808

What branch of chemistry was founded by Van't Hoff? What notable honor was given him in recognition of his work? 905

In what fields were the researches of Ostwald conducted? What are his most valuable contributions to chemistry? When was the Nobel prize for chemistry awarded him?. 825

For what investigations was Sabatier awarded (with Grignard) the Nobel prize of 1912?..... 863

Name important contributions by Chittenden..... 545

With what subjects do the researches of Frankland deal?... 637

State the value of the researches by Arrhenius in the theory of solutions. What distinguished scientific honors has he received? 460

What investigations were begun by Pierre Curie and Madame Curie in 1896? To what momentous discovery did these researches lead? In what scientific honors did they jointly share? 572

What new element did Madame Curie discover? By what monumental labor was she enabled to determine the atomic weight of radium?..... 572

To what professorship did Madame Curie succeed upon the death of her husband? What new honor was conferred upon her in 1911? What was remarkable about this award? 572

What notable discovery was made by Buchner? How have his contributions to chemistry been recognized?..... 518

What English chemist prepared artificial rubber in 1912?...834-G

At what university did Richards gain his degree of Ph.D.? Under what eminent chemists did he later study? In what fields of investigation did he become distinguished? What special scientific honor did he receive in 1914?....853-G

What new compounds were discovered by Grignard? How have these been valuable? How has Grignard been honored? 678

What chemical elements were discovered by Baskerville?... 476
What eminent British physicist received the Nobel prize for chemistry in 1908? For what researches is he distinguished? 862-E
In what field has Willstätter done authoritative work? What recognition did his researches receive in 1915?..... 923
READING AND REFERENCE: Meyer, *History of Chemistry;* Bauer, *History of Chemistry;* Schorlemmer, *The Rise and Development of Organic Chemistry;* Duncan, *The Chemistry of Commerce;* Meldola, *Chemistry;* Watts, *Dictionary of Chemistry;* Thorp, *Dictionary of Applied Chemistry.*
TEXTBOOKS: Remsen, *Introduction to Chemistry;* Ostwald, *Introduction to Chemistry;* Norris, *Principles of Organic Chemistry;* Roscoe and Schorlemmer, *Treatise on Chemistry;* McPherson and Henderson, *First Course in Chemistry;* Thorp, *Industrial Chemistry.*

GEOGRAPHY

What geographical invention is credited to Anaximander?.. 452
Name an important geographical fact known to Eratosthenes. How did he measure the earth's circumference?..... 612
State the extent of Strabo's work on geography. What countries does it describe?..... 885
Of what country was Ptolemy a native? Tell something of the regard in which early scientific men held him. To what class of books did Ptolemy's *Geography* belong? What was the extent of its influence?..... 845
Where was Marco Polo born? What great overland journey did he make? State the value of *The Book of Marco Polo* to the study of geography..... 842
What did COLUMBUS believe concerning the shape of the earth? By what discovery did he prove it?.....279-285
What important route did Vasco da Gama attempt to find? Give the results of his expedition..... 649
Sketch briefly Magellan's circumnavigation of the globe. Name his two important discoveries in the western hemisphere 792
In what way did Mercator influence the study of geography? 803
Who was the first Englishman to circumnavigate the globe? How was he honored for this achievement?.....596-B
Who first taught the use of globes? Where? Under what title did he publish the results of his voyages?.....684-E
Outline briefly the discoveries made by Lapérouse..... 769

How many voyages did Capt. Cook make? What present possession of the United States was first visited by him?... 560

What was the most important work done by Jedediah Morse? Upon what subject were his textbooks the first published? When were courses in geography first introduced at Harvard?..... 812

Who is considered the founder of modern physical geography? 725-E

Who was the founder of comparative geography? Of what importance was his work?.....855-F

What important discovery did Sir J. C. Ross make on his last arctic voyage? State his "farthest south" record. What body of land did he reach in his antarctic journeying?.. 859

What branch of geography was taught by Guyot?..... 682

For what purpose did Livingstone first visit Africa? State the scientific value of his work..... 777

Where did Kiepert conduct his first explorations? Speak briefly of the value and extent of his work in cartography. 758

What geographical divisions of Africa were for the first time thoroughly studied by Barth?..... 475

What important African lake did Burton discover with Speke? 523

State Speke's belief concerning Lake Victoria Nyanza. Did his later discoveries confirm or confute his ideas?..... 881

Mention the subjects of Reclus's geographical works..... 850

Where did Przhevalski make important discoveries? What famous traveler had previously visited this region? When? 845, 842-A

Give an outline of Stanley's journeys in Africa. What books did he write on the subject?..... 882

State the contributions of Gannett to American geography.. 650

In what department of geography has Davis gained distinction? To what important chair did he rise? What exploring expedition did he accompany? Name three of his works.....581-E

Who discovered the north pole? When did he make his first attempt to reach it? How long after was the discovery made? 832-F

Where and for how long was Tarr professor of physical geography? With whom did he collaborate in the preparation of geographical textbooks? 891, 791-B

What Asiatic expedition was headed by Younghusband?... 932

Where did Hedin begin his explorations? Name three of his works on Asia..... 700

Who discovered the south pole? State the important facts concerning this achievement. How was he rewarded?.. 451-I

What important geographical determination was made by Mawson? What two antarctic lands did he discover? State an interesting fact regarding each discovery. What is the scientific value of Mawson's work?..... 800

READING AND REFERENCE: Tozer, *History of Ancient Geography;* Jacobs, *Story of Geographical Discovery;* Beazley, *The Dawn of Modern Geography;* Keltie and Howarth, *History of Geography;* Humboldt, *Cosmos;* Newbigin, *Modern Geography;* Murray, *The Ocean.*

TEXTBOOKS: Mill, *International Geography;* Salisbury, Barrows, and Tower, *Modern Geography;* Stanford, *Descriptive Geography;* Tarr and McMurry, *Common School Geography;* Davis, *Physical Geography;* Salisbury, *Physiography;* Chisholm, *Handbook of Commercial Geography;* Robinson, *Commercial Geography;* J. R. Smith, *Industrial and Commercial Geography.*

GEOLOGY

What distinguished British scientist is called the father of modern geology? Why? What important theory was he instrumental in establishing?.....785-G

When was Lyell's *Principles of Geology* published? What does the theory of uniformitarianism assume? State Lyell's attitude toward DARWIN'S theory of evolution.. 785

In what noted works were Humboldt's contributions to geology published? 725

What early American geologist published *The Geology of the Connecticut Valley?* Of what eastern states did he make thorough geological surveys?.....712-E

How did Hugh Miller obtain his education? Name some of his contributions to geology..... 806

On what noted voyage did DARWIN study geology? Name the titles of six of his contributions to geological knowledge. Discuss Geikie's estimate of their value.....343-344

On what important exploring expedition did Dana study geology? What university chair did he occupy for thirty-five years? Discuss the range and value of his work. What is his rank among scientists?.....576-H

In what department of geology was Whitney distinguished? To what important development did he contribute? What mountain is named in his honor?..... 918

What eminent scientist became an authority on Canadian geology? What was his attitude toward DARWIN'S theory of the origin of life forms? Mention some of his works.....582-C

Under what noted scientist did Le Conte study geology? Where did Le Conte become professor of geology? State the value of his contributions to science..... 772

Briefly sketch the scientific career of Winchell. For what object were his lectures and writings prepared?..... 924

Where and with what object did Hayden begin scientific exploration? What regions did he later explore geologically, and with what results?..... 698

What notable geological exploration brought Powell into prominence? What scientific bureau did the government establish through his recommendation?..... 844

Of what important geological surveys was Sir A. Geikie director? Name some of his works on geology..... 654

Of what early American geologist was Hitchcock the son? In what college was he professor of geology for forty years? State his contributions to science.....712-D

What noted university chair of geology did James Geikie occupy? Whom did he succeed? To what department of geology did he chiefly contribute?..... 655

What American geologist specialized on the geology of Yellowstone national park? Mention his works.....684-A

What geologist made surveys in Canada for more than fifty years? To what position did he rise? Describe briefly the extent of his explorations.....482-F

What American geologist made in 1870 a scientific exploration of Mt. Ranier? Name some of his publications.....610-F

What university professorships did Shaler hold? What scientific service for the United States government did he perform? Name some of his books on geology..... 873

What noted American geologist discovered Mt. Whitney and Mt. Tyndall? Who first surveyed the Yosemite valley? What important survey did he originate in 1866? State the nature, scope, and results of this survey.....758-G

What prominent American geologist accompanied the Peary relief expedition of 1894? In what capacity did he serve the United States government? For what hypothesis is he noted?.....540-A

In what noted geological surveys did Gilbert assist? State his contributions to science..... 661

What regions did G. M. Dawson explore? Name some of his important contributions to geology..... 582

What geological expedition did Branner conduct? Of what university did he become president? On what regions has he published geological works?..... 508

In what department of American geology did Van Hise become an authority? Of what university was he made president? Name some of his important works..... 904

On what important geological survey was Ami engaged?.... 451

READING AND REFERENCE: Geikie, *The Founders of Geology;* Zittel, *History of Geology and Paleontology;* Shaler, *Aspects of the Earth;* Geikie, *Earth Sculpture;* Reade, *Origin of Mountains;* Darwin, *Coral Reefs;* Russell, *Volcanoes of North America;* Wright, *The Ice Age in North America.*

TEXTBOOKS: Dana, *Manual of Geology;* Chamberlin and Salisbury, *Geology;* Tarr, *Elementary Geology;* Ries, *Economic Geology of the United States.*

MATHEMATICS

Upon what does the claim that Thales is the founder of Greek mathematics rest?..... 894

What calculations is Anaximander said to have made?..... 452

What noted Greek philosopher proved the proposition of the square upon the hypotenuse of a right-angled triangle?..846-H

What were the most noted mathematical works of Archimedes? 457

What important branch of mathematics was founded by Hipparchus? 711

What work has immortalized Euclid's name in science? Of what is it the basis?..... 614

Why is Apollonius regarded a founder of mathematics?..... 456

Who actually discovered and who first published the solution of the cubic equation? Speak of its importance.....530-B

For what contribution to science is Napier noted?..... 816

Who invented the decimal or common system of logarithms?.511-C

What branch of mathematics was originated by DESCARTES? Discuss its value to science. Mention three other valuable contributions to mathematics made by DESCARTES 246

What important contribution to mathematics was made by NEWTON at the age of twenty-one?..... 306

When did NEWTON begin to write on fluxions or the calculus? 306, 308

In what monumental work did NEWTON publish his applications of the calculus? State its scientific rank....308, 310
In what year did LEIBNITZ discover his differential calculus? When and in what work did he publish it?..... 255
Mention three mathematical triumphs achieved by Bernoulli.488-G
To what divisions of mathematics were the valuable contributions of Euler made?..... 615
State proofs of the remarkable mathematical precocity of Clairaut. What celebrated problem in astronomy did he solve? What famous computation did he make?..... 548
At what age did Lagrange become professor of mathematics? What eminent mathematician did he succeed as director at Berlin? Name Lagrange's most valuable work..... 767
In what mathematical fields was Fourier distinguished?.... 634
What noted early American mathematician was largely self-educated? What authoritative work did he produce?... 505-I
With what essay did Ampère begin his mathematical career? 451
What remarkable discovery did Gauss make at the age of nineteen? When did he announce his method of least squares? Discuss the extent and quality of his mathematical work. Of what theory is he the founder? State his rank among mathematicians.....653-A
Of what theory was Cauchy the founder? What theory of light did he help establish? State the extent of his work. 537
For what mathematical work is Abel celebrated?..... 439
What German mathematician was noted for his discoveries in elliptic functions? 737-F
Who was the inventor of quaternions? Mention his other important mathematical works 688-E
In what university was Benjamin Peirce professor of mathematics for forty-seven years? To what does he owe his high rank among American mathematicians?..... 833
In what universities did Loomis hold professorships? What were his other contributions to mathematical instruction? 781
To the development of what division of physics did Stokes devote his mathematical powers?..... 885
What mathematical paper was published by KELVIN at the age of sixteen? Under what title were his mathematical contributions chiefly issued? Discuss some of the practical objects to which he devoted his mathematical genius 353-356
In what university was Baker made professor? On what subjects has he published contributions?..... 467

In what American university was Woodward made professor of mathematical physics? To what eminent scientific position did he later rise?..... 927

READING AND REFERENCE: Cajori, *History of Mathematics;* Fink, *History of Mathematics;* D. E. Smith, *History of Modern Mathematics;* Whitehead, *Introduction to Mathematics.*

PALEONTOLOGY

What was the title of CUVIER'S first paper on fossils? When was it published? In what later work did CUVIER found the science of vertebrate paleontology? What two important laws developed by CUVIER enabled him to reconstruct extinct animals from fossil fragments of bones? 329-332

What noted French naturalist collaborated with CUVIER in classifying fossils? 512-H

What French botanist won fame by his work on fossil plants? 512-G

What noted English scientist became CUVIER'S logical successor in paleontology? Name one of his important works.825-H

What was the effect of DARWIN'S theory of evolution on the development of paleontology?.....342-347

What noted chair of paleontology did Marsh fill with distinction? Sketch briefly the extent of his contributions to science. What new types of animals did he discover and describe? Of what importance was his discovery of the fossil ancestors of the horse? Name some of his works.. 796

Where was Hyatt made professor of paleontology? In what group of scientists was he prominent? Mention one of his works 729

What was Cope's connection with the Wheeler and Hayden surveys? What formations did he explore? How many species of extinct animals did he name and describe? To what important chair did he succeed? In what field of theoretical science was he distinguished?..... 561

To what is Zittel's international reputation due? What exploring expedition did he accompany? Name noted works. 935

In what capacity did White serve on United States government surveys? For what period did he have charge of the fossils of the national museum? What do his writings include? 917

Of what great museum was Lucas made director? On what fossil animals did he make researches? Name two of his works on extinct animals..... 784

For what noted scientist did Williston conduct fossil-hunting expeditions? For what profession was he educated? To what university chair did he rise? By what researches and discoveries has he won international reputation? What is his rank as a scientist? Name two of his authoritative works 922

In what university was Osborn professor of zoology? In what museum was he curator of vertebrate paleontology? Where did he make explorations, and with what results? For what purpose did he conduct expeditions in Africa? Name two of his works on ancient mammals..... 824

READING AND REFERENCE: Zittel, *History of Geology and Paleontology;* Lankester, *Extinct Animals;* Lucas, *Animals of the Past;* Osborn, *Age of Mammals.*

TEXTBOOKS: Zittel and Eastman, *Textbook of Paleontology;* Woodward, *Outlines of Vertebrate Paleontology;* Woods, *Paleontology: Invertebrates.*

PHYSICS

Who wrote the earliest great work on physical science, in England? What subject did he investigate chiefly? What terms now in use did he originate?.....661-C

What three fundamental laws of physics were discovered by GALILEO? What theorem did he propound concerning falling bodies? What did he prove concerning the law of velocity? 295, 298

What did GALILEO prove concerning the path of a projectile? What science did GALILEO found?..... 298

State GALILEO'S discoveries with reference to the pendulum, to air and suction, and to the theory of sound.... 298

What valuable instruments did GALILEO invent? Of what use was his hydrostatic balance?.....296, 295

In what work did KEPLER lay the foundation of optics? What did he contribute concerning the telescope?..... 300

What instrument was invented by Guericke? What was demonstrated by the experiment of the "Magdeburg hemispheres?" 680

Of what great scientist was Torricelli a pupil? Besides his invention of the barometer, what contributions did he make to science?..... 899

What theory of light was developed by Huygens? What property of light was first demonstrated by him?..... 729

State the important law of physics known as Boyle's law. Why is this called Mariotte's law in many countries? When did Mariotte publish his discovery? How long after Boyle?.....506, 795

What great law of physics was discovered by NEWTON? What important deduction did he make concerning the decrease of the power of gravity with distance? What notable discovery did he make concerning the composition of light? In what celebrated work were these discoveries embodied?.....307-308

What instrument was invented by Réaumur?..... 850

What notable improvement in the thermometer was made by Fahrenheit? In what countries is his thermometric scale used?..... 617

What notable discovery in electricity was made by FRANKLIN? What practical application did he make of it?... 393

Who first developed the kinetic theory of gases?.....488-F

What important determination was made by Cavendish concerning the density of the earth?..... 538

What valuable instrument was invented by Coulomb? What electric unit was named in his honor?..... 564

After what scientist was galvanism named? How did he make his discoveries? What doctrine did they establish?....649-D

Mention important instruments and experiments made by Volta. What was his most valuable discovery?..... 908

What did Rumford recognize concerning the nature of heat? To what practical fields did he devote his scientific knowledge?..... 861

Who invented the camera lucida? What other contributions did he make to optics? What did he first observe in the solar spectrum?.....926-G

To what subject did Fourier make valuable contributions?... 634

Who was the founder of saccharimetry? What instrument formed the basis of his method? For what researches was he noted?.....492-D

What valuable instrument was invented by Ampère? What electrical unit is named in his honor?..... 451

What type of pendulum was devised by Kater? Describe its use..... 753

What did Oersted show concerning the nature of magnetism, electricity, and galvanism?..... 822

What early American physicist was professor at Yale for fifty years? What important journal was founded by him?..877-B

What eminent French scientist discovered the law of volumes? Name other important discoveries in physics made by him.....654-B

What eminent Scotch physicist invented the kaleidoscope? With whom does he share the honor of inventing the stereoscope? In what field did he make important discoveries? 510-E

What important discovery was made by Fraunhofer?..... 638

In honor of what physicist was the measure of electrical resistance named? Name an important result of his researches 822-I

In what department of physics was Fresnel distinguished? What earlier theory of light did he disprove? State Fresnel's theory of light. Mention one of his valuable inventions 642

What brilliant English physicist was largely self-educated? In what fields did he make experiments? State some of the important results. What now universally used electrical terms were originated by him?.....619-A

Who discovered "Haidinger's brush?" What does this enable the physicist to detect?.....684 C

Who was the founder of thermodynamics? How did he show that he appreciated the great law later known as the conservation of energy? What recent physicist extended his work? 531-G

What valuable contribution was made by Henry toward the invention of the electric telegraph? What was his most important electrical discovery? In what way did he anticipate modern wireless telegraphy? Of what scientific institution was Henry director? How was his memory honored in 1915?..... 704

Describe the nature of the researches in electricity made by De la Rive. For what discovery was he awarded a prize? 585

Who invented electrotyping? Mention other contributions to science made by him.....737-G

What great contribution to electrical science was made by Weber? When and by whom were the values of the volt, ampere, coulomb, and farad defined?.....913-G

Mention three valuable scientific inventions made by Jolly.. 748

In what fields was Grove distinguished? By what invention is he known? What theory of forces did he propound?.. 679

For what was Stokes preeminent in his century? By what discovery is he best known?..... 885

What physicist is entitled to the credit of first conceiving the great doctrine of the conservation of energy? What experiments led him to this view?.....801-D
What researches and discoveries were made by Joule? How did he confirm the doctrine of the conservation of energy? 750
When and by whom was the gyroscope invented?.....634-C
In what departments of physics did A. E. Becquerel make researches? What instrument did he invent?..... 479
In what way did Tyndall advance physical science?..... 902
By what famous essay did HELMHOLTZ first attract scientific attention? What fundamental principle did it enunciate? To what chemical principle enunciated by LAVOISIER does it correspond?..... 348
To what inventions did HELMHOLTZ'S investigations in physiological optics lead? Of what value is the ophthalmoscope? Discuss its constructive principle.....348-349
To what great work did his investigations in physiological acoustics lead? Discuss briefly some of the points advanced in his *Sensations of Tone*.....349-350
To what distinguished chair was HELMHOLTZ called in 1871? To what department of physics were HELMHOLTZ'S remaining years devoted? Of what importance were his researches in electrodynamics? Under what six heads may his contributions to science be summed up? State the number of scientific publications by HELMHOLTZ. In what three realms of science was he a commanding figure?..... 351
What is the second law of thermodynamics? When and by whom was it first stated? What was his theory of electrolysis? 550-F
Discuss how Hittorf anticipated Crookes's discovery of radiant matter. In what field did Hittorf make valuable researches? 712
Sketch briefly the early life and education of KELVIN. At what age did he publish his first scientific paper?..... 353
At what age was he appointed professor in Glasgow university? With what noted scientist was he there associated? 353
Discuss KELVIN'S views, based on the facts of physical science, as to the age of the earth..... 354
State KELVIN'S part in securing the acceptance of the international centimeter-gram-second system of electrical standards 355
Outline briefly the nature of KELVIN'S later researches.... 355

Discuss the scientific value of KELVIN'S work and his rank among modern scientists..... 356

What similarity between electromagnetic waves and those of light was proved by Maxwell? Has his hypothesis concerning the nature of electricity and light been confirmed? 801

What important discoveries in physics were made by Crookes? What are "Crookes tubes" and how did he produce them? 570

What is the Holtz electrical machine?..... 717

For what researches was Van der Waals awarded a Nobel prize? 908

At what university and for how long was Gibbs professor of mathematical physics? Of what use is the "Gibbs phase rule?" What system was developed by Gibbs during 1881-1884? 659

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TEXTBOOKS: Ames, *Text-Book of General Physics;* Watson, *Text-Book of Physics;* Daniell, *Text-Book of the Principles of Physics;* Crew, *General Physics;* Kelvin and Tait, *Elements of Natural Philosophy;* Hall, *Elements of Physics;* Millikan and Gale, *First Course in Physics.*

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REPTILES AND AMPHIBIANS: Boulenger, *Reptiles and Batrachians;* Ditmars, *Reptiles of the World* and *Reptile Book;* Dickerson, *The Frog Book;* Cope, *Crocodilians, Lizards, and Snakes;* Williston, *Water Reptiles of the Past and Present;* Cope, *Batrachia of North America.*

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NATURE STUDY AND TRAVEL: Comstock, *Handbook of Nature Study;* White, *Natural History of Selborne;* Darwin, *Voyage of a Naturalist;* Bates, *The Naturalist on the River Amazons;* Hudson, *The Naturalist in La Plata;* Selous, *Hunter's Wanderings in Africa;* Beebe, *Two Bird Lovers in Mexico;* Belt, *Naturalist in Nicaragua;* Roosevelt, *South African Game Trails.*

USEFUL ARTS

GENERAL READING AND REFERENCE: Clodd, *Story of Primitive Man;* Tylor, *Primitive Culture;* Mason, *The Origin of Invention;* Gibson, *Romance of Modern Manufacture;* Smiles, *Men of Invention and Industry*

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Electrical: Steinmetz, *Theoretical Elements of Electrical Engineering;* Fleming, *The Principles of Electric Wave Telegraphy and Telephony;* Crocker, *Electric Lighting;* Houston, *Electric Railways;* Crocker, *Management of Electrical Machinery.*

Mining: Ihlseng, *Manual of Mining;* Lupton, *Mining;* Hughes, *Text Book of Coal Mining;* Lock, *Practical Gold Mining;* Stretch, *Prospecting, Locating and Valuing Mines;* Curle, *The Gold Mines of the World;* Williams, *The Diamond Mines of South Africa.*

Sanitary: Baker, *Municipal Engineering and Sanitation;* Chapin, *Municipal Sanitation in the United States.*

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Farming and Stock-Raising: Bailey, *Cyclopedia of American Agriculture;* Wilcox and Smith, *Cyclopedia of Live Stock;* Brooks, *Agriculture;* Warren, *Elements of Agriculture;* Earle, *Southern Agriculture;* Wilson and Warburton, *Field Crops;* Agee, *Crops and Methods of Soil Improvement;* King, *Farmers of Forty Centuries;* Comstock, *How to Keep Bees;* Brown, *Poultry Husbandry.*

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Forestry: Fernow, *History of Forestry;* Pinchot, *Primer of Forestry;* Green, *Principles of American Forestry;* Gifford, *Practical Forestry;* Brucken, *North American Forests and Forestry;* Fernow, *The Care of Trees.*

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COMMERCE—INDUSTRY—FINANCE

READING AND REFERENCE: Bogart, *Economic History of the United States;* Wright, *Industrial Evolution of the United States;* Laughlin, *Industrial America;* Johnson, *History of Domestic and Foreign Commerce of the United States;* Dewey, *Financial History of the United States.*

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READING AND REFERENCE: Marco Polo, *The Book of Marco Polo;* Winsor, *Christopher Columbus;* Markham, *Christopher Columbus;* Hakluyt, *Voyages;* Cook, *Three Voyages Round the World;* Bougainville, *Voyage Around the World.*

Asia: Bookwalter, *Siberia and Central Asia;* Hedin, *Through Asia;* Hedin, *Trans-Himalaya;* Younghusband, *India and Tibet: Within;* Przhevalski, *Travels in Mongolia;* Przhevalski, *From Kulja Across the Tian-Shan to Lob-nor;* Landor, *Tibet and Nepal.*

Africa: Bruce, *Travels to Discover the Sources of the Nile;* Mungo Park, *Travels in the Interior of Africa;* Barth, *Travels and Discoveries in North and Central Africa;* Baker, *The Albert Nyanza;* Speke, *Discovery of the Source of the Nile;* Du Chaillu, *Country of the Dwarfs;* Burton, *Lake Regions of Equatorial Africa;* Livingstone, *The Zambesi and Its Tributaries;* Stanley, *Through the Dark Continent;* Stanley, *In Darkest Africa.*

Australia: Flinders, *Voyages to Terra Australis;* Grimm, *Discovery and Exploration of Australia;* Calvert, *Exploration of Australia;* Giles, *Australia Twice Traversed.*

North America: See American History, Period of Discovery; Fiske, *Discovery of America;* Bourne, *Narratives of De Soto;* Winship, *Coronado Expedition;* Meany, *Vancouver's Discovery of Puget Sound;* Lewis and Clark, *Expedition to the Sources of the Missouri River;* Pike, *Expedition to the Sources of the Mississippi;* Slafter, *Voyages of the Northmen;* Schwatka, *Along Alaska's Great River;* Stefánsson, *Stefánsson-Anderson Expedition.*

South America: Bourne, *Spain in America;* Helps, *Spanish Conquest of America;* Humboldt, *Journey to the Equinoctial Regions of the New Continent;* Marcoy, *Journey Across South America;* Osborn, *The Andean Land;* Orton, *The Andes and the Amazon;* Post, *Across the Andes;* Bingham, *Across South America.*

Polar Research: Greely, *Handbook of Polar Discoveries;* Kane, *Arctic Explorations;* Nansen, *Farthest North;* Peary, *Northward Over the Great Ice;* Duke of Abruzzi, *On the Polar Star in the Arctic Sea;* Peary, *The North Pole;* Borchgrevink, *First on the Antarctic Continent;* Shackleton, *Heart of the Antarctic;* Amundsen, *The South Pole;* Turley, *Voyages of Captain Scott;* Mawson, *Home of the Blizzard.*

HISTORY OF EDUCATION

GENERAL WORKS FOR STUDY, READING, AND REFERENCE: Cubberley, *Syllabus in the History of Education;* Duggan, *Student's Text-Book in the History of Education;* Graves, *History of Education;* Monroe, *Text-Book in the History of Education;* Monroe, *Cyclopedia of Education.*

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READING AND REFERENCE: Burnet, *Aristotle on Education;* Clark, *Education of the Children at Rome;* Davidson, *Education of the Greek People;* Hobhouse, *Ancient Education;* Lane, *Elementary Greek Education;* Laurie, *Pre-Christian Education;* Mahaffy, *Old Greek Education;* Quintilian, *Institutes of Oratory;* Thomas, *Roman Life Under the Cæsars;* West, *The Ancient World.*

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READING AND REFERENCE: Drane, *Christian Schools and Scholars;* Mullinger, *The Schools of Charles the Great;* Rashdall, *Universities of Europe During the Middle Ages;* West, *Alcuin and the Rise of Christian Schools;* Williams, *Education During the Middle Ages.*

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READING AND REFERENCE: Woodward, *Education During the Renaissance;* Quick, *Educational Reformers;* Painter, *Luther on Education;* Ward, *The Counter-Reformation;* Schwickerath, *Jesuit Education;* Monroe, *Comenius' School of Infancy;* Boyd, *The Educational Theory of Rousseau;* Pestalozzi, *Leonard and Gertrude;* Holman, *Pestalozzi, His Life and Work;* De Garmo, *Herbart and Herbartians;* Froebel, *Pedagogics of the Kindergarten;* Spencer, *Education;* Huxley, *Science and Education;* Person, *Industrial Education;* Montessori, *The Montessori Method;* Cubberley, *The Educational Ideal;* Misawa, *Modern Educators and Their Ideals;* Dewey, *Schools of To-morrow.*

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READING AND REFERENCE: Dexter, *History of Education in the United States;* Butler, *Education in the United States;* Hinsdale, *Horace Mann and the Common School Revival;* Brown, *Making of Our Middle Schools;* Henderson, *Jefferson on Public Education;* Brown, *Origin of American State Universities;* Jenks, *Education for Citizenship;* Dewey, *The School and Society;* Scott,*Social Education;* Perry, *Wider Use of the School Plant;* Smith, *All the Children of All the People;* Kern, *Among Country Schools;* Knorr, *Consolidated Rural Schools;* Brown, *The American High School;* Barnard, *Normal School;* Bramwell and Hughes, *Training of Teachers in the United States;* Taylor, *Professional Education in the United States;* Hanus, *Beginnings in Industrial Education;* Thurston, *Technical Education in the United States;* Thwing, *History of Higher Education in America;* Thwing, *American Colleges;* Hadley, *The Education of the American Citizen;* Davenport, *Education for Efficiency.*

AMERICAN LITERATURE

GENERAL READING, STUDY, AND REFERENCE:

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Sectional Works: Lawton, *The New England Poets;* Swift, *Brook Farm;* Higginson, *Old Cambridge;* Nicholson, *The Hoosiers;* Painter, *Poets of Virginia;* Venable, *Beginnings of Literary Culture in the Ohio Valley;* Baskerville, *Southern Writers;* Moses, *Literature of the South; Library of Southern Literature.*

Selections: Stedman and Hutchinson, *Library of American Literature;* Duyckinck, *Cyclopedia of American Literature;* Bronson, *American Poems and American Prose;* Calhoun and MacAlarney, *Readings from American Literature;* Carpenter, *American Prose;* Stedman, *An American Anthology;* Bronson, *American Poems;* Lounsbury, *American Poems.*

REFERENCE: Adams, *Dictionary of American Authors;* Allibone, *Dictionary of English Literature and British and American Authors;* Whitcomb, *Chronological Outlines of American Literature;* Howes, *American Bookmen; The Standard Dictionary of Facts.*

AMERICAN DRAMA

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READING AND REFERENCE: Moses, *The American Dramatist;* Burton, *The New American Drama;* Crawford, *The Romance of the American Drama;* Mackaye, *The Civic Theater;* Clark, *The British and American Drama of Today;* Wegelin, *Early American Plays;* Roden, *Later American Plays, 1831-1900.*

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READING AND REFERENCE: Stedman, *Poets of America;* Onderdonck, *History of American Verse;* Collins, *Poetry and Poets of America;* Lawton, *The New England Poets;* Mims and Payne, *Southern Poetry;* Kent, *Southern Poets;* Wegelin, *Early American Poetry;* Woodberry, *Inspiration of Poetry;* Page, *Chief American Poets;* Stedman, *An American Anthology;* Lounsbury, *American Poems;* Bronson, *American Poems;* Crandall, *Representative American Sonnets;* Poe, *The Poetic Principle;* Stedman, *The Nature and Elements of Poetry.*

WAR, PATRIOTISM, AND BRAVERY: Eggleston, *American War Ballads and Lyrics;* Moore, *Songs and Ballads of the American Revolution;* Moore, *Songs of the Soldiers;* Brown, *Bugle Echoes;* Matthews, *Poems of American Patriotism;* Scollard, *Ballads of American Bravery.*

ENGLISH LITERATURE

GENERAL READING, STUDY, AND REFERENCE: Heydrick, *How to Study Literature;* Long, *English Literature;* Long, *English and American Literature;* Pancoast, *Introduction to English Literature;* Adams, *Dictionary of English Literature;* Cousin, *Dictionary of English Literature;* Brewer, *Reader's Handbook; The Standard Dictionary of Facts.*

HISTORY: *The Cambridge History of English Literature; Channels of English Literature* (Dutton); Ten Brink, *English Literature to 1550;* Jusserand, *Literary History of the English People to 1650;* Saintsbury, *Short History of English Literature; Handbooks of English Literature* (Macmillan); Garnett and Gosse, *Illustrated History of English Literature;* Morley, *English Writers;* Taine, *English Literature;* Ryland, *Chronological Outlines of English Literature;* Meiklejohn, *Outline of the History of English Literature;* Nicoll and Seccombe, *History of English Literature.*

PERIODS: Ker, *English Literature, Medieval;* Schofield, *English Literature from the Norman Conquest to Chaucer;* Schofield, *English Literature from Chaucer to Elizabeth;* Hadow, *Chaucer and His Time;* Robertson, *Elizabethan Literature;* Saintsbury, *History of Elizabethan Literature;* Schelling, *English Literature During the Life of Shakespeare;* Gosse, *From Shakespeare to Pope;* Perry, *English Literature in the Eighteenth Century;* Saintsbury, *History of Nineteenth Century Literature;* Mair, *English Literature: Modern.*

SELECTIONS: Manly, *English Poetry;* Manly, *English Prose;* Pancoast, *Standard English Poetry;* Pancoast, *Standard English Prose; Oxford Treasury of English Literature* and *Oxford Book of English Verse* (Clarendon Press); Page, *British Poets of the Nineteenth Century;* Stedman, *Victorian Anthology;* Ward, *English Poets;* Morley, *Library of English Literature; Leading English Poets from Chaucer to Browning* (Houghton); Craik, *English Prose Selections;* Chambers, *Encyclopedia of English Literature.*

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CRITICISM: Saintsbury, *History of Criticism;* Painter, *Elementary Guide to Literary Criticism;* Gayley and Scott, *Introduction to Methods and Materials of Literary Criticism;* Winchester, *Principles of Criticism;* Worsfold, *Principles of Criticism;* Moulton, *Library of Literary Criticism;* Kames, *Elements of Criticism;* Smith, *Elizabethan Critical Essays;* Schelling, *Literary and Verse Criticism of the Reign of Elizabeth;* Vaughan, *Literary Criticism;* Coleridge, *Literary Criticism;* Sidney, *Defense of Poesie;* Shelley, *Defense of Poetry;* Woodberry, *New Defense of Poetry.*

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Biography: Boswell, *Life of Dr. Johnson;* Lockhart, *Life of Scott;* Carlyle, *Frederick the Great;* Forster, *Dickens;* Froude, *Carlyle;* Cross, *George Eliot;* Dowden, *Shelley;* Trevelyan, *Macaulay;* Morley, *Gladstone.*

Autobiography: Pepys, *Diary;* Cibber, *Apology for His Life;* Martineau, *Autobiography;* Ruskin, *Præterita;* Huxley, *Autobiography.*

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Classic Period: Bury, *The Ancient Greek Historians;* Arnold, *The Historians of Rome.*

Modern Period: Balzani, *Early Chroniclers of Europe;* Gooch, *History and Historians in the Nineteenth Century;* Guilland, *Modern Germany and Her Historians.*

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READING AND REFERENCE: Jebb, *Growth and Influence of Greek Poetry;* Symonds, *Studies in Greek Poetry;* Lang, *Homer and the Epic;* Capp, *Homer to Theocritus.*

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READING AND REFERENCE: Tyrell, *Latin Poetry;* Sellar, *Poets of the Republic;* Sellar, *Poets of the Augustan Age;* Sainte-Beuve, *Study of Vergil* (Fr.); *Oxford Book of Latin Verse.*

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READING AND REFERENCE: Brunetière, *Evolution of Lyric Poetry in the Nineteenth Century;* Dupuy, *Victor Hugo, the Man and the Poet;* Swinburne, *The Study of Victor Hugo;* Canfield, *French Lyrics;* Lowell, *Six French Poets;* Symonds, *The Symbolist Movement in Literature.*

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READING AND REFERENCE: Isham, *History of American Painting;* Caffin, *American Masters of Painting;* Tuckerman, *Book of the Artists;* Van Dyke, *History of American Art;* Hartmann, *History of American Art;* Benjamin, *Art in America;* Lester, *Artists of America;* Mach, *Outlines of the History of Painting;* Sheldon, *American Painters;* Clement and Hutton, *Artists of the Nineteenth Century;* Cummings, *Annals of the National Academy;* Blashfield, *Mural Painting in America;* Pauline King, *American Mural Painting; Biographical Sketches of American Artists* (Michigan State Library).

WORLD PAINTING

GENERAL READING AND REFERENCE: Van Dyke, *History of Painting;* Woltman and Woerman, *History of Painting;* Wedmore, *Painters and Painting;* Viardot, *History of Painting;* Mach, *Outlines of the History of Painting;* Hoyt, *The World's Painters;* Wornum, *Epochs of Painting;* Ruskin, *Modern Painters;* Bryan, *Dictionary of Painters;* Williamson, *Great Masters;* Champlin, *Cyclopedia of Painters and Painting;* Van Dyke, *Meaning of Pictures.*

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READING AND REFERENCE: Reber, *History of Ancient Art;* Perrot and Chipiez, *Art in Greece;* Wickhoff, *Roman Art;* Strong, *Art in Rome.*

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READING AND REFERENCE: Woefflin, *The Art of the Italian Renaissance;* Crowe and Cavalcaselle, *New History of Painting in Italy;* Scott, *The Renaissance of Art in Italy;* Brown and Rankin, *Short History of Painting in Italy;* Viardot, *Wonders of Italian Art;* Kugler, *Italian Schools of Painting;* Lanzi, *History of Painting in Italy;* Lindsay, *History of Christian Art;* Morelli, *Italian Painters;* Symonds, *Life of Michelangelo;* Vasari, *Lives of the Artists.*

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READING AND REFERENCE: Crowe and Cavalcaselle, *Early Flemish Painters;* Rooses, *Art in Flanders;* Wouters, *The Flemish School;* Fromentin, *Old Masters of Belgium and Holland;* Van Dyke, *Old Dutch and Flemish Masters.*

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SCULPTURE

GENERAL READING AND REFERENCE: Lübke, *History of Sculpture;* Short, *History of Sculpture;* Marquand and Frothingham, *Text-Book of the History of Sculpture;* Reinach, *Apollo;* Viardot, *Wonders of Sculpture.*

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READING AND REFERENCE: Taft, *History of American Sculpture;* Caffin, *American Masters of Sculpture;* Hartmann, *Modern American Sculpture;* Tuckerman, *Book of the Artists; Biographies of American Artists* (Michigan State Library).

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MODERN HISTORY

British Empire

GENERAL READING AND REFERENCE: Adams, *Political History of England;* Andrews, *History of England;* Cheyney, *Short History of England;* Cheyney, *Social and Industrial History of England;* Cross, *History of England;* Dilke, *The British Empire;* Egerton, *Short History of British Colonial Policy;* Gardiner, *Student's History of England;* Gneist, *History of the English Constitution;* Green, *Short History of the English People;* Green, *The Making of England;* Hodgkin, *Political History of England;* Larned, *History of England for Schools;* Larson, *History of England;* McCarthy, *Modern England;* Payne, *Colonies and Colonial Federations;* Rogers, *Industrial and Commercial History of England;* Sanderson, *The British Empire in the Nineteenth Century;* Seeley, *The Expansion of England;* Smith, *The United Kingdom: a Political History;* Stubbs, *The Constitutional History of England;* Traill, *Social England.*

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The use of history is to give value to the present hour and its duty.—Emerson.

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